

Amendments to the Claims:

This Listing of Claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A computer system comprising:
a computational resource;
a storage system; and
a communication link connecting said computational resource and said storage system; wherein said computational resource establishes communications with said storage system using said communication link; and

wherein said storage system allocates resources to said computational resource based upon a data rate capability of storage resources in said storage resources and a data rate capability of said communication link.

Claim 2 (original): The system of claim 1, wherein said computational resource is a host system.

Claim 3 (original): The system of claim 1, wherein said computational resource is a second storage system.

Claim 4 (original): The system of claim 1, wherein said storage system allocates storage resources to said computational resource based upon a data rate capability of said storage resources and a data rate capability of said communication link.

Claim 5 (original): The system of claim 4, wherein said communication link provides a guaranteed quality of service (QoS) communication.

Claim 6 (original): The system of claim 5, wherein said guaranteed quality of service (QoS) communication comprises a guaranteed data rate; and wherein said storage system allocates storage resources based upon said guaranteed data rate.

Claim 7 (original): The system of claim 6, wherein said guaranteed quality of service (QoS) communication comprises a guaranteed bandwidth; and wherein said storage system allocates storage resources based upon said guaranteed bandwidth.

Claim 8 (original): The system of claim 1, wherein said storage system allocates data path resources to said computational resource based upon a data rate capability of said storage resources and a data rate capability of said communication link.

Claim 9 (original): The system of claim 8, wherein said communication link provides a guaranteed quality of service (QoS) communication.

Claim 10 (original): The system of claim 9, wherein said guaranteed quality of service (QoS) communication comprises a guaranteed data rate; and wherein said storage system allocates data path resources based upon said guaranteed data rate.

Claim 11 (original): The system of claim 10, wherein said guaranteed quality of service (QoS) communication comprises a guaranteed bandwidth; and wherein said storage system allocates data path resources based upon said guaranteed bandwidth.

Claim 12 (original): An apparatus comprising:
a processor;
a storage; and
a network connection, operable to connect said apparatus at a guaranteed quality of service (QoS); and
wherein said processor establishes a data path between said storage and said network connection; said data path being assigned a sufficient data speed to accommodate said guaranteed quality of service.

Claim 13 (original): The apparatus of claim 12, wherein said network connection comprises Asynchronous Transfer Mode (ATM).

Claim 14 (original): The apparatus of claim 12, wherein said network connection comprises Integrated Services Digital Network (ISDN).

Claim 15 (original): The apparatus of claim 12, wherein said network connection comprises Digital Subscriber Line network (DSL).

Claim 16 (original): The apparatus of claim 12, wherein said network connection comprises Resource Reservation Protocol (RSVP).

Claim 17 (original): A method for allocating resources in a storage system, said storage system comprising a storage and a network connection, said method comprising:
establishing a data path between said storage and said network connection;
said data path being assigned a sufficient data speed based upon a data capacity of said storage and a data rate capability of said network connection; and
allocating said storage based upon a data capacity of said storage and a data rate capability of said network connection.

Claim 18 (original): The method of claim 17, wherein said network connection provides a guaranteed quality of service (QoS) communication, wherein establishing said data path comprises assigning a data path having a sufficient data speed to accommodate said guaranteed quality of service.

Claim 19 (original): The method of claim 17, wherein said network connection provides a guaranteed quality of service (QoS) communication, wherein allocating storage comprises allocating storage having a sufficient data capacity to accommodate said guaranteed data rate.

Claim 20 (original): The method of claim 17, wherein said establishing a data path comprises:
searching for unallocated data communications resources to accommodate a data capacity of said storage.

Claim 21 (original): The method of claim 17, wherein said allocating storage comprises:
searching for unallocated storage having a sufficient data capacity to match a data rate capability of said network connection.

Claim 22 (new): A computer system comprising:
a computational resource;
a storage system having storage resources; and
a communication link connecting the computational resource and the storage system; wherein the computational resource establishes communications with the storage system using said communication link; and
wherein the storage system allocates at least one of said storage resources which have different data rate capability respectively to the computational resource based upon a data rate capability of the communication link.